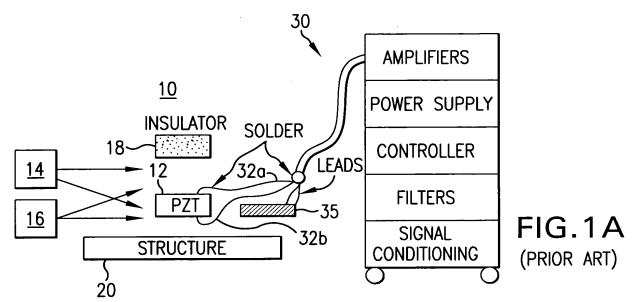
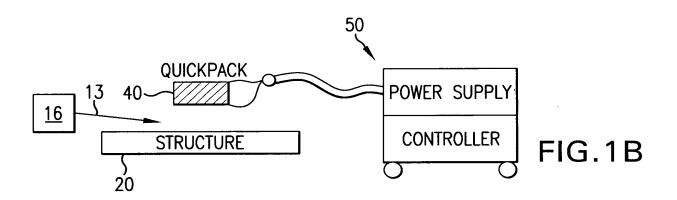
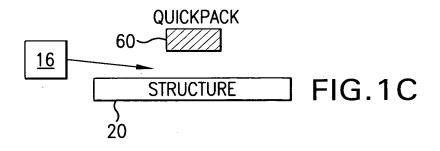


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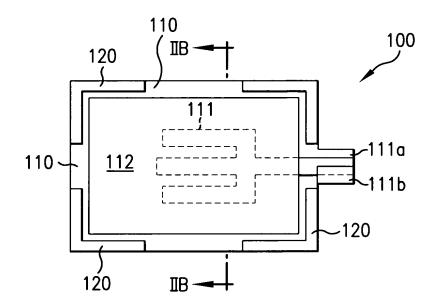


FIG.2A

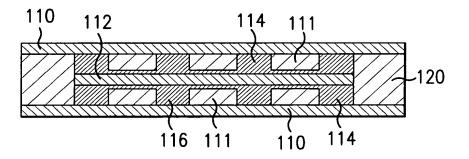


FIG.2B



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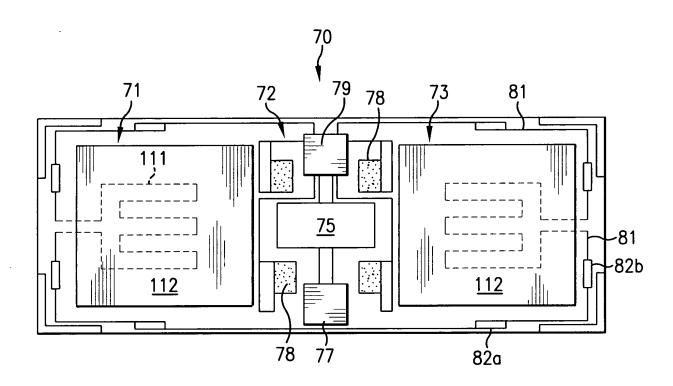
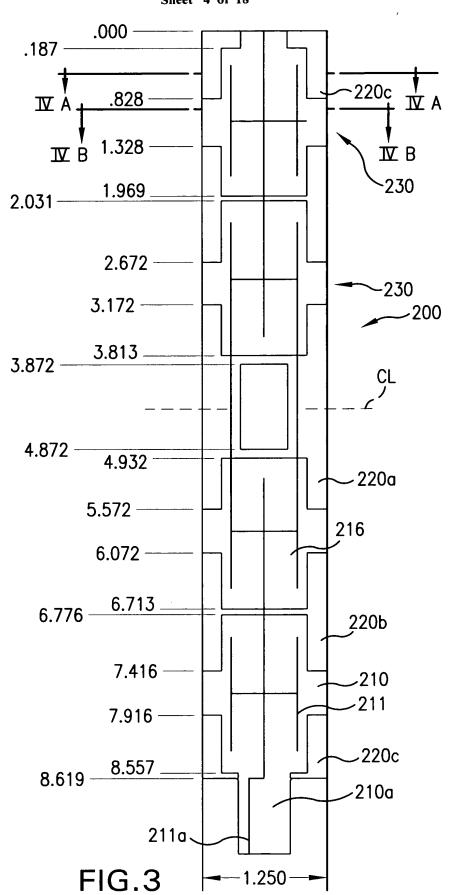


FIG.2C

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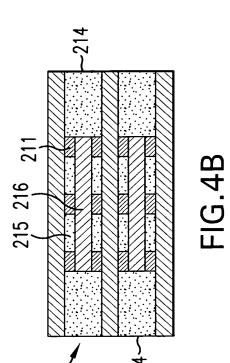
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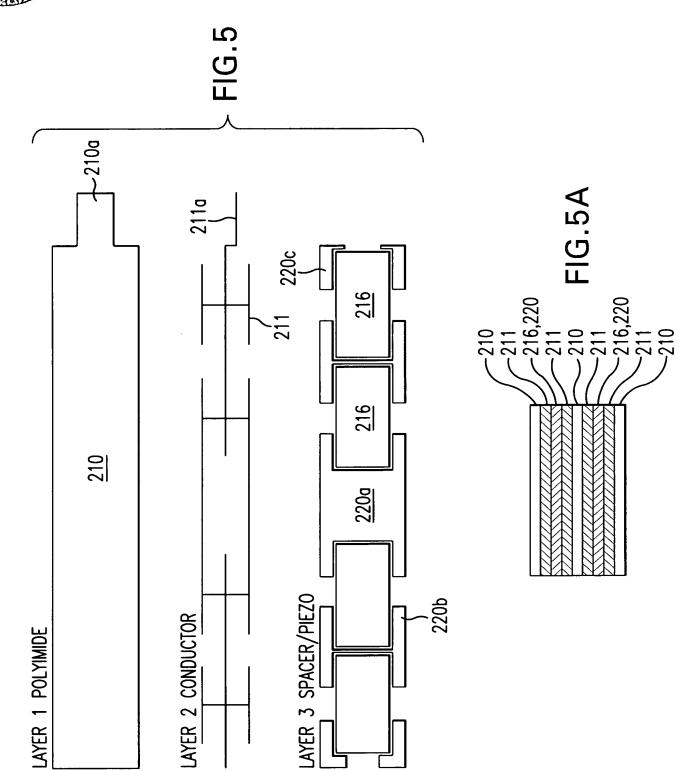


214 211 210 216 214a 220c 214a 216a 216 210

FIG.4A

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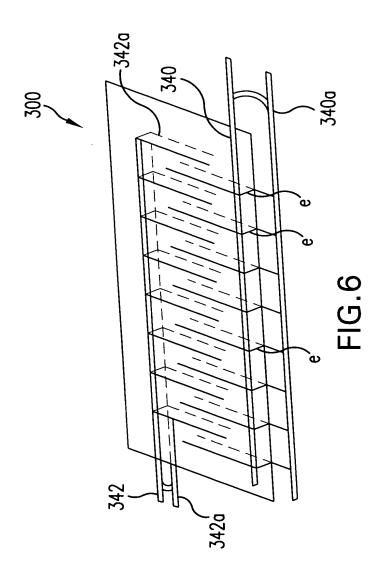




Filed: April 27, 1999

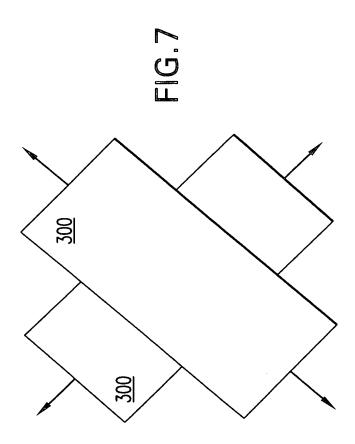
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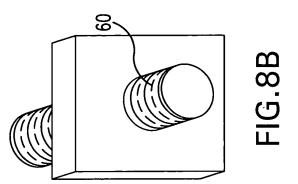


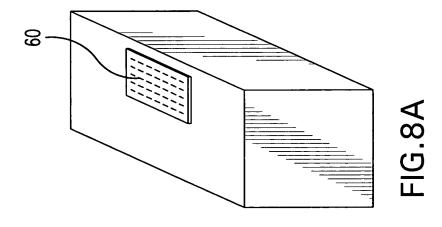
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# SINGLE ACTUATORS:

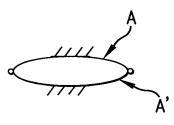




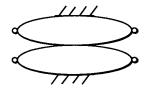


PIN PIN BENDER FIG.9c

## **MULTIPLE ACTUATORS:**



PIN PIN BELLOWS FIG.9d



MULTIPLE PIN PIN BELLOWS FIG.9e



PIN PIN WITH LEVER FIG.9f



PIN PIN WITH CANTILEVER BENDER FIG.9g



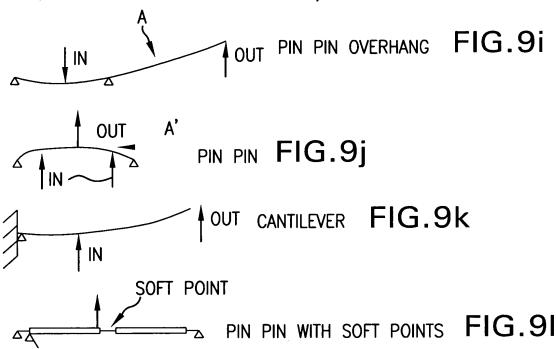
OUT & BACK CANTILEVER FIG.9h

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IN CONJUCTION WITH BENDER-LEVERS;

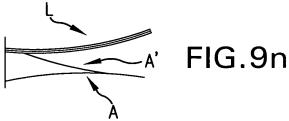


MULTIPLE ACTUATOR/BENDER LEVERS:

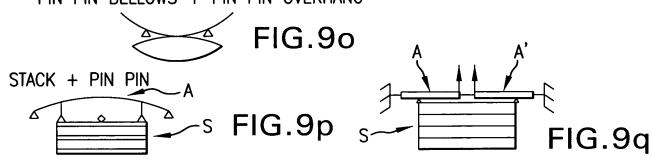
CANTILEVER BINDER + CANTILEVER LEVER



OUT & BACK CANTILEVER BENDER + CANTILEVER LEVER



PIN PIN BELLOWS + PIN PIN OVERHANG



Kenneth Lazarus, et al. USSN 09/300,137 Filed: April 27, 1999 TANDEMARKO Title: Packaged Strain Actuator Sheet 12 of 18 402 FIG. 10C 408 402 402 402 FIG. 10B 402 412 FIG. 10A 402 **BOTTOM FILM** TOP FILM PZT

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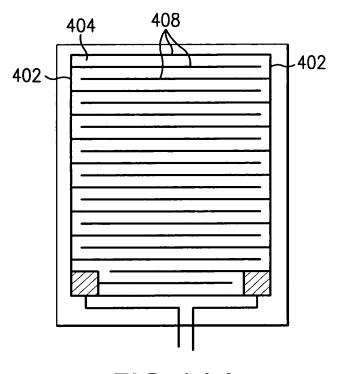


FIG.11A

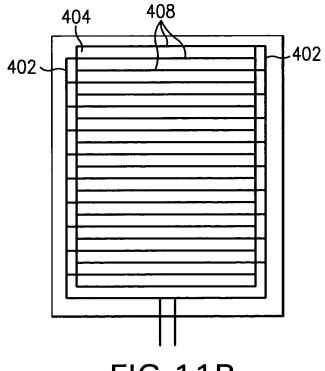


FIG.11B



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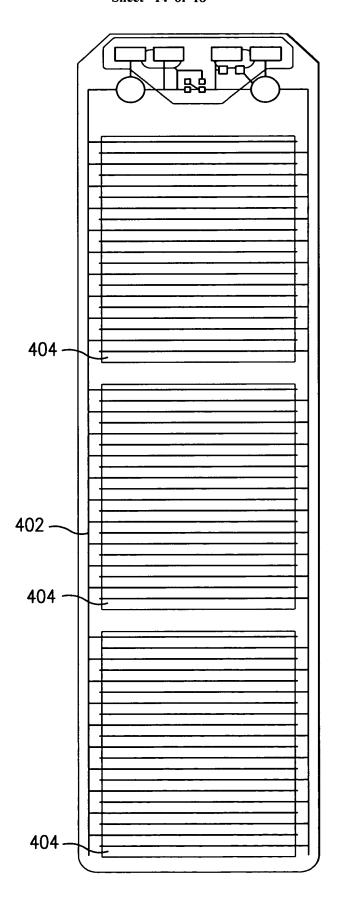
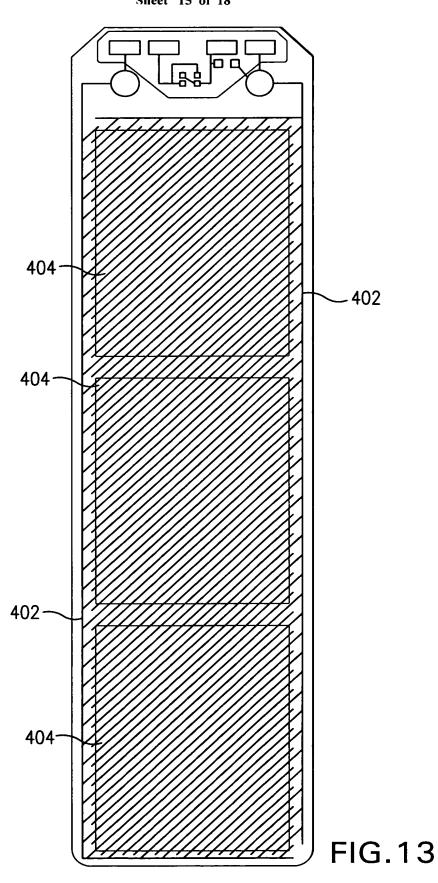


FIG.12

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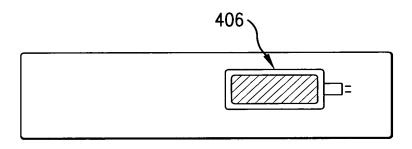


FIG.14A

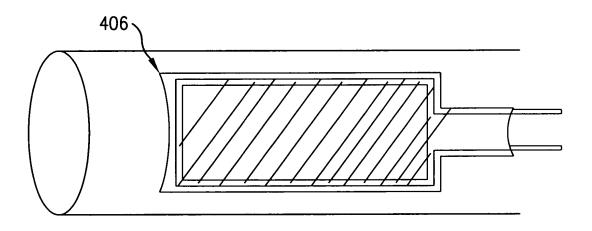
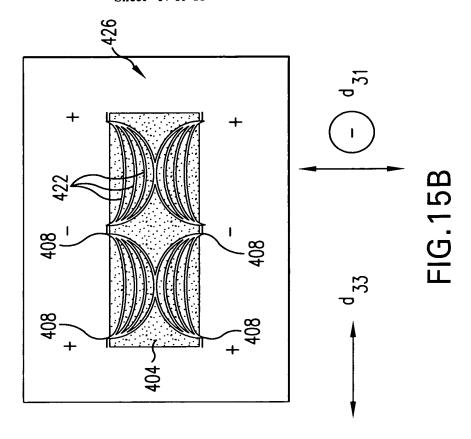
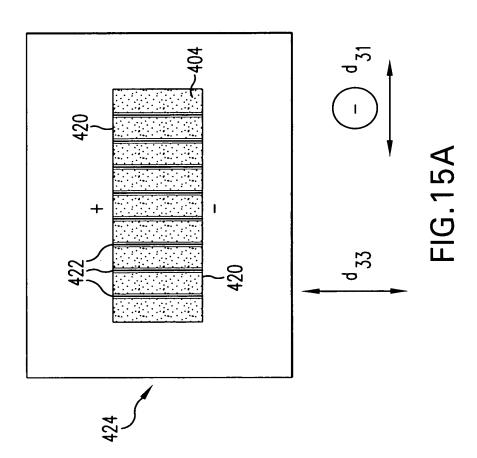


FIG.14B



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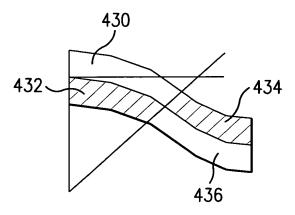


FIG.16

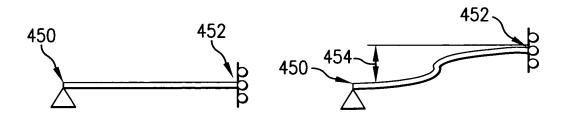


FIG.17